Author Index

Aalto, K., see Vauhkonen, M., 171
Abramson, E.C., Gajardo, H. and Kukreja, S.C. Hypocalcemia in cancer, 161
Alitalo, I., see Vauhkonen, M., 171
Ampofo, M.A., see Lowenthal, M.N., 149
Andersson, G., see Lindunger, A., 109
Apte, S.S., Expression of the cell proliferation-associated nuclear antigen reactive with the Ki-67 monoclonal antibody by cells of the skeletal system in humans and other species, 37

Barlet,J.-P., see Davicco, M.-J., 131
Bayley, T.A., see Harrison, J.E., 233
Bird, M.D.T., see Schnitzler, C.M., 183
Bjurholm, A., Kreicbergs, A., Dahlberg, L. and Schultzberg, M., The occurrence of neuropeptides at different stages of DBM-induced heterotopic bone formation, 95
Brandi, M.L., see Streeten, E.A., 85
Budden, F.H., see Harrison, J.E., 233

Cole, T.J., see Prentice, A., 211
Coxam, V., see Davicco, M.-J., 131

Dahlberg, L., see Bjurholm, A., 95
Davicco, M.-J., Coxam, V., Roux, R. and Barlet, J.-P., Plasma osteocalcin concentrations in cattle under various pathophysiological conditions, 131

Ek-Rylander, B., see Lindunger, A., 109

Farquharson, C. and Loveridge, N., Cell proliferation within the growth plate of long bones assessed by bromodeoxyuridine uptake and its relationship to glucose 6-phosphate dehydrogenase activity, 121
Fraser, D.R., see Prentice, A., 211

Gajardo, H., see Abramson, E.C., 161
Goodwin, S., see Harrison, J.E., 233

Hänström, L., see Lerner, U.H., 215
Harrison, J.E., Patt, N., Müller, C., Bayley, T.A., Budden, F.H., Josse, R.G., Murray, T.M., Sturtridge, W.C., Strauss, A., and Goodwin, S., Bone mineral mass associated with postmenopausal vertebral deformities, 233
Hollis, B.W., see Sowers, M.F.R., 139

Iguchi, H., Kasai, R., Okumura, H., Yamamuro, T. and Kagan, H.M., Effect of dietary cadmium and/or copper on the bone lysyl oxidase in copper-deficient rats relative to the metabolism of copper in the bone, 51

Josse, R.G., see Harrison, J.E., 233

Kagan, H.M., see Iguchi, H., 51
Karaharju, E., see Vauhkonen, M., 171
Kasai, R., see Iguchi, H., 51
Kawase, T. and Suzuki, A., Initial responses of a clonal osteoblast-like cell line, MOB 3-4, to phosphatidic acid in vitro, 61
Kreicbergs, A., see Bjurholm, A., 95
Kukreja, S.C., see Abramson, E.C., 161

Laskey, M.A., see Prentice, A., 211
Lerner, U.H., Hänström, L. and Sjöström, S., Stimulation of bone resorption and cell proliferation in vitro by human gingival fibroblasts from patients with perio-

dontal disease, 215
Lindunger, A., MacKay, C.A., Ek-Rylander, B., Andersson, G. and Marks Jr., S.C., Histochemistry and biochemistry of tartrate-resistant acid phosphatase (TRAP) and tartrate-resistant acid adenosine triphosphatase (TrATPase) in bone, bone marrow and spleen: implications for osteoclast ontogeny, 109
Lomri, A. and Marie, P.J., Changes in cytoskeletal proteins in response to parathyroid hormone and 1,25-dihydroxyvitamin D in human osteoblastic cells, 1
Loveridge, N., see Farquharson, C., 121
Lowenthal, M.N., Ampofo, M.A., Sheinkin-Kestenbaum, R. and Shany, S., Calcitonin in Ghanaians and Israelis, 149

MacKay, C.A., see Lindunger, A., 109
Marie, P.J., see Lomri, A., 1
Marks Jr., S.C., see Lindunger, A., 109
Mesquita, J.M., see Schnitzler, C.M., 183
Mosekilde, L., Consequences of the remodelling process for vertebral trabecular bone structure: a scanning electron microscopy study (uncoupling of unloaded structures), 13
Müller, C., see Harrison, J.E., 233
Murray, T.M., see Harrison, J.E., 233

Nakajima, S., Yamaoka, K., Yamamoto, T., Okada, S., Tanaka, H. and Seino, Y., Decreased concentration of 1,25-dihydroxyvitamin D_3 receptors in peripheral mononuclear cells of patients with X-linked hypophosphatemic rickets: effect of phosphate supplementation, 201

Okada, S., see Nakajima, S., 201
Okumura, H., see Iguchi, H., 51

Patt, N., see Harrison, J.E., 233
Peltonen, J., see Vauhkonen, M., 171
Pettifor, J.M., see Schnitzler, C.M., 183
Prentice, A., Laskey, M.A., Shaw, J., Cole, T.J. and Fraser, D.R., Bone mineral content of Gambian and British children aged 0–36 months, 211

Roux, R., see Davicco, M.-J., 131

Sampson, H.W. and Trzeciakowski, J.P., Intervertebral disk mineralization in progressive ankylosis mice, 71
Schnaid, E., see Schnitzler, C.M., 183
Schnitzler, C.M., Pettifor, J.M., Mesquita, J.M., Bird, M.D.T., Schnaid, E. and Smyth, A.E, Histomorphometry of iliac crest bone in 346 normal black and white South African adults, 183
Schultzberg, M., see Bjurholm, A., 95
Seino, Y., see Nakajima, S., 201
Shany, S., see Lowenthal, M.N., 149
Shaw, J., see Prentice, A., 211
Sheinkin-Kestenbaum, R., see Lowenthal, M.N., 149
Sjöström, S., see Lerner, U.H., 215
Smyth, A.E., see Schnitzler, C.M., 183
Sowers, M.F.R., Wallace, R.B. and Hollis, B.W., The relationship of 1,25-dihydroxyvitamin D and radial bone mass, 139
Strauss, A., see Harrison, J.E., 233
Streeten, E.A. and Brandi, M.L., Biology of bone endothelial cells, 85
Sturtridge, W.C., see Harrison, J.E., 233
Suzuki, A., see Kawase, T., 61

Tanaka, H., see Nakajima, S., 201
Trzeciakowski, J.P., see Sampson, H.W., 71

Vauhkonen, M., Peltonen, J., Karaharju, E., Aalto, K. and Alitalo, I., Collagen synthesis and mineralization in the early phase of distraction bone healing, 171

Wallace, R.B., see Sowers, M.F.R., 139

Yamamoto, T., see Nakajima, S., 201
Yamamuro, T., see Iguchi, H., 51
Yamaoka, K., see Nakajima, S., 201

Subject Index

Africans, 211
Age dependence, 183
Aging, 13
Alkaline phosphatase 61
Ankylosis 71
Anthropometry, 211
Autoradiography, 37

Blacks, 183
Bone, 85, 109, 131, 215,
Bone collagen, 51
Bone development, 37
Bone distraction, 171
Bone growth, 121
Bone innervation, 95
Bone lysyl oxidase, 51
Bone mass, 139
Bone mineral content, 211
Bone mineral mass, 233
Bone-resorption, 215
Bromodeoxyuridine, 121

Cadmium,51
Calcitonin, 149
cAMP, 61, 85
Cancer, 161
Cartilage, 37, 71
Cattle, 131
Cell culture, 85
Cell cycle, 37
Cell proliferation, 121
Children, 211
Collagen, 171
Copper, 51
Cytoplasmic free Ca^{2+}, 61
Cytoplasmic pH, 61
Cytoskeleton, 1

1,25-Dihydroxyvitamin D, 139

$1,25(OH)_2D$, 1
Demineralized bone matrix, 95
Dietary calcium, 139

Endothelial, 85
Epiphyseal growth plate, 121

Fibroblast, 215
Fractures, 149

Ghanaians, 149
Glucose 6-phosphate dehydrogenase, 121
Growth plate, 37

Histomorphometry, 183
Hypocalcaemia, 131
Hypocalcemia, 161

Immunohistochemistry, 95, 121
Inositol 1,4,5-trisphosphate, 61
Intervertebral disk, 71
Israelis, 149

Ki-67, 37

Mineralization, 71, 171

Morphometry on spinal radiograph, 233

Neurotransmitters, 95
Normal iliac bone, 183

Ontogeny, 109
Osteoblast, 215
Osteoblast-stimulating factor, 161
Osteocalcin, 1, 131
Osteoclast, 109
Osteoclastic perforation, 13
Osteoporosis, 233

Parathyroid hormone, 1
Perichondrium, 37
Periodontitis, 215
Periosteum, 37
Peripheral mononuclear cell, 201
Phosphate supplementation, 201
Phosphatidic acid, 61
Proliferation, 61

Racial differences, 149
Remodelling, 13

Scanning electron microscopy, 13
Sex difference, 183, 211
Single-photon absorptiometry, 211
Spleen, 109
Spondyloarthropathy, 71

Tartrate-resistant acid ATPase, 109
Tartrate-resistant acid phosphatase, 109
Thiazide antihypertensive, 139
Trabecular bone architecture, 13
Tumor-lysis syndrome, 161

Vitamin D, 139
Vitamin D receptor, 201
Vitamin D resistance, 201

Whites, 183

X-linked hypophosphatemic rickets, 201